

# Cardinal Resources Ltd. Wide Gold Zones Continue at Namdini Project

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Perth, Australia - [Cardinal Resources Ltd.](#) (ASX: CDV) announces the results of a further two diamond drill holes NMDD440-766 and NMDD420-756, recently completed on the Namdini Project ("Namdini") (Figure 1, see link below).

## Highlights:

- Wide gold mineralised zones of 270m and 230m continue within 2 sections
- Significant gold mineralised intersections within these 2 sections include:
  - 72m @ 1.72 g/t
  - 61m @ 1.07 g/t
  - 33m @ 1.62 g/t
  - 18.1m @ 2.87 g/t
  - 15.4m @ 4.02 g/t

The gold potential of the Namdini Project has been further enhanced by the intersection of a mineralised zone of 72m @ 1.72 g/t within diamond drill hole NMDD440-766.

Drill hole NMDD440-766, together with NMRD443-746 (ASX announcement dated 22 January 2016), has enabled Section K to be compiled with a 230m mineralised zone (Figure 2, see link below).

Drill hole NMDD420-766, together with NMDD422-736 (ASX announcement dated 12 February 2016), has enabled Section I to be compiled with a 270m mineralised zone (Figure 3, see link below).

The granitoids intersected in both diamond drill holes are mineralised throughout which confirm that gold mineralisation is consistently being intersected along strike and at depth.

Currently the Cardinal drill rig and two contract drill rigs are on site drilling holes NMDD411-752, NMDD413-731 and NMRD445-732. Samples from 7 drill holes are at the laboratory, which we expect will provide a constant flow of results (Figure 1).

NMDD420-756 intersected 96m of gold mineralisation within hydrothermally altered granitoids, volcanics and diorites from 110m to 206m vertical depths (Figures 3, 4, 5 and 6, see link below).

NMDD440-766 intersected 153m of mineralisation within hydrothermally altered granitoids and volcanics from 37m to 190m vertical depths, including 72m @ 1.72 g/t from 49m vertical depth (Figures 2 and 7, see link below).

Drill holes NMDD420-756 and NMDD440-766 were cored from surface. The soft near surface materials were drilled with a Triple Tube core barrel to reduce core losses. Once harder rock was encountered, then HW steel casing was inserted for stability of each hole and HQ size core was drilled to their final depths of 317.5m and 272.24m respectively.

The drill rigs were aligned for both drill holes at -65DEG dip drilling east which allows for the shallowing of the drill holes with depth. The azimuth was set at 095DEG instead of 100DEG (normal to the strike of the formations) as the borehole traces usually deflects to the right with depth due to the clockwise rotation of the drill rods.

The drill holes were surveyed near the top of each drill hole, then every 30m down the hole to determine the dip and azimuth of the drill holes with depth.

The core was orientated at each drill run using a digital instrument. The core was marked showing the base of the drill hole, then the core from each drill run was laid in a length of angle iron to fit the core together so that the orientation line could be drawn along the length of the core at the drill site. Geotechnical parameters were measured using this orientation line as the datum line.

The core was photographed then cut in half; one half was consistently sampled, with the remaining half stored in metal core trays and placed on metal racks under cover in the core shed at Bolgatanga. The half core samples were sent to the SGS Laboratory in Burkina Faso for sample preparation and fire assay.

#### Planned Diamond Drilling Program

Further diamond drill holes are planned to evaluate the NNE trending gold mineralised corridor (marked in black circles on Figure 1). All of these drill holes are planned to drill across this mineralised corridor to confirm the continuation of gold mineralisation along strike and at depth.

#### Namdini Geology

The Namdini Project is located within a Paleo-Proterozoic Greenstone Belt comprising Birimian metavolcanics, volcanoclastics and metasediments located in close proximity to a major 30 km ~N-S regional shear zone with splays. These rock units are intruded by felsic monzonite granitoids and quartz diorites.

The gold mineralisation is developed within foliated, sheared and highly altered volcanoclastic rocks containing sulphides (pyrite and arsenopyrite). The host rocks dip approximately 60DEG W and strike 010DEG .

Hydrothermal alteration of the volcanoclastics is comprised of silica, iron carbonate (ankerite), sericite, epidote and chlorite. The highly altered rocks contain disseminated gold-bearing sulphides and are distinguished from the grey, unaltered, unmineralised host rocks by characteristic pale to medium green colours.

The monzonite granitoids are medium to coarse grained with quartz vein stockworks and are usually altered to pale green epidote with patches of pink to reddish albite (alkali feldspar). Sulphides of pyrite and arsenopyrite are contained within these granitoids.

The monzonite granitoid intrusive is considered to have been the "heat engine" which remobilised gold bearing sulphide rich fluids which altered the host rocks and precipitated the gold mineralisation within them.

The NNE-SSW trending corridor containing the gold mineralisation is bounded on both east and west sides by foliated metasediments of varying compositions, also dipping 60DEG W and striking 010DEG .

The quartz diorites contain primary pyrite sulphides which are weakly mineralised when unaltered. However, the diorites become partly mineralised when they are hydrothermally altered or sheared with quartz veining, or when some mineralised zones of altered volcanoclastics or granitoids occur within them.

#### Monitoring Of Drilling Programs

Cardinal's technical and management team evaluates all of the available data on a daily basis with the main focus being the expansion of the gold potential.

Cardinal, together with the two contract drill rigs, are providing the samples for express assaying services from SGS Laboratory, Ouagadougou, Burkina Faso. This enables the Company to continuously improve its drill plan strategy as new information becomes available.

To view tables and figures, please visit:  
<http://abnnewswire.net/lnk/K8K9382M>

#### About Cardinal Resources Ltd:

[Cardinal Resources Ltd.](#) (ASX:CDV) is a focused gold exploration and development company with its key assets located in the mineral-rich country of Ghana, West Africa

Cardinal owns and operates 2 drill rigs and has in country infrastructure which allows it to be a low cost exploration and development company.

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